



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/648,631

DATE: 10/08/2004

TIME: 15:32:28

Input Set : A:\66671-044.TXT

Output Set: N:\CRF4\10082004\J648631.raw

4 <110> APPLICANT: Hunter, Tony
 5 Kun Ping, Lu
 7 <120> TITLE OF INVENTION: NIMA INTERACTING PROTEINS
 10 <130> FILE REFERENCE: 66671-044
 12 <140> CURRENT APPLICATION NUMBER: US 10/648,631
 13 <141> CURRENT FILING DATE: 2003-08-25
 15 <150> PRIOR APPLICATION NUMBER: US 10/616,410
 16 <151> PRIOR FILING DATE: 2003-07-08
 18 <160> NUMBER OF SEQ ID NOS: 22
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 1014
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Homo sapiens
 27 <220> FEATURE:
 28 <221> NAME/KEY: CDS
 29 <222> LOCATION: (25)...(513)
 31 <400> SEQUENCE: 1

32	tgctggccag cacctcgagg gaag atg gcg gac gag gag aag ctg ccg ccc	51
33	Met Ala Asp Glu Glu Lys Leu Pro Pro	
34	1 5	
36	ggc tgg gag aag cgc atg agc cgc agc tca ggc cga gtg tac tac ttc	99
37	Gly Trp Glu Lys Arg Met Ser Arg Ser Ser Gly Arg Val Tyr Tyr Phe	
38	10 15 20 25	
40	aac cac atc act aac gcc agc cag tgg gag cgg ccc agc ggc aac agc	147
41	Asn His Ile Thr Asn Ala Ser Gln Trp Glu Arg Pro Ser Gly Asn Ser	
42	30 35 40	
44	agc agt ggt ggc aaa aac ggg cag ggg gag cct gcc agg gtc cgc tgc	195
45	Ser Ser Gly Gly Lys Asn Gly Gln Gly Glu Pro Ala Arg Val Arg Cys	
46	45 50 55	
48	tcg cac ctg ctg gtg aag cac agc cag tca cgg cgg ccc tcg tcc tgg	243
49	Ser His Leu Leu Val Lys His Ser Gln Ser Arg Arg Pro Ser Ser Trp	
50	60 65 70	
52	cgg cag gag aag atc acc cgg acc aag gag gag gcc ctg gag ctg atc	291
53	Arg Gln Glu Lys Ile Thr Arg Thr Lys Glu Glu Ala Leu Glu Leu Ile	
54	75 80 85	
56	aac ggc tac atc cag aag atc aag tcg gga gag gag gac ttt gag tct	339
57	Asn Gly Tyr Ile Gln Lys Ile Lys Ser Gly Glu Glu Asp Phe Glu Ser	
58	90 95 100 105	
60	ctg gcc tca cag ttc agc gac tgc agc tca gcc aag gcc agg gga gac	387
61	Leu Ala Ser Gln Phe Ser Asp Cys Ser Ser Ala Lys Ala Arg Gly Asp	
62	110 115 120	
64	ctg ggt gcc ttc agc aga ggt cag atg cag aag cca ttt gaa gac gcc	435

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/648,631

DATE: 10/08/2004

TIME: 15:32:28

Input Set : A:\66671-044.TXT

Output Set: N:\CRF4\10082004\J648631.raw

```

65 Leu Gly Ala Phe Ser Arg Gly Gln Met Gln Lys Pro Phe Glu Asp Ala
66          125          130          135
68 tcg ttt gcg ctg cgg acg ggg gag atg agc ggg ccc gtg ttc acg gat      483
69 Ser Phe Ala Leu Arg Thr Gly Glu Met Ser Gly Pro Val Phe Thr Asp
70          140          145          150
72 tcc ggc atc cac atc atc ctc cgc act gag tgagggtggg gagcccaggc      533
73 Ser Gly Ile His Ile Ile Leu Arg Thr Glu
74          155          160
76 ctggcctcgg ggcagggcag ggcggctagg ccggccagct ccccttgcc cgccagccag      593
77 tggccgaacc cccactccc tgccaccgct acacagtatt tattgttccc acaatggctg      653
78 ggaggggggcc cttccagatt gggggccctg ggggtcccccac tccctgtcca tccccagttg      713
79 gggctgcgac cgccagattc tcccttaagg aattgacttc agcaggggtg ggaggctccc      773
80 agaccaggg cagtgtggtg ggaggggtgt tccaaagaga aggcctggtc agcagagccg      833
81 ccccggtgcc cccaggtgc tggaggcaga ctcgagggcc gaattgtttc tagttaggcc      893
82 acgctcctct gttcagtcgc aaaggtgaac actcatgcgg cagccatggg ccctctgagc      953
83 aactgtgcag accctttcac cccaattaa acccagaacc actaaaaaaa aaaaaaaaaa     1013
84 a                                                                1014
86 <210> SEQ ID NO: 2
87 <211> LENGTH: 163
88 <212> TYPE: PRT
89 <213> ORGANISM: Homo sapiens
91 <400> SEQUENCE: 2
92 Met Ala Asp Glu Glu Lys Leu Pro Pro Gly Trp Glu Lys Arg Met Ser
93 1          5          10          15
94 Arg Ser Ser Gly Arg Val Tyr Tyr Phe Asn His Ile Thr Asn Ala Ser
95          20          25          30
96 Gln Trp Glu Arg Pro Ser Gly Asn Ser Ser Ser Gly Gly Lys Asn Gly
97          35          40          45
98 Gln Gly Glu Pro Ala Arg Val Arg Cys Ser His Leu Leu Val Lys His
99          50          55          60
100 Ser Gln Ser Arg Arg Pro Ser Ser Trp Arg Gln Glu Lys Ile Thr Arg
101 65          70          75          80
102 Thr Lys Glu Glu Ala Leu Glu Leu Ile Asn Gly Tyr Ile Gln Lys Ile
103          85          90          95
104 Lys Ser Gly Glu Glu Asp Phe Glu Ser Leu Ala Ser Gln Phe Ser Asp
105          100          105          110
106 Cys Ser Ser Ala Lys Ala Arg Gly Asp Leu Gly Ala Phe Ser Arg Gly
107          115          120          125
108 Gln Met Gln Lys Pro Phe Glu Asp Ala Ser Phe Ala Leu Arg Thr Gly
109          130          135          140
110 Glu Met Ser Gly Pro Val Phe Thr Asp Ser Gly Ile His Ile Ile Leu
111 145          150          155          160
112 Arg Thr Glu
115 <210> SEQ ID NO: 3
116 <211> LENGTH: 31
117 <212> TYPE: DNA
118 <213> ORGANISM: Homo sapiens
120 <400> SEQUENCE: 3
121 gcgcctgcag tatctataya tggaataytg t      31

```

RAW SEQUENCE LISTING

DATE: 10/08/2004

PATENT APPLICATION: US/10/648,631

TIME: 15:32:28

Input Set : A:\66671-044.TXT

Output Set: N:\CRF4\10082004\J648631.raw

```

123 <210> SEQ ID NO: 4
124 <211> LENGTH: 31
125 <212> TYPE: DNA
126 <213> ORGANISM: Homo sapiens
128 <400> SEQUENCE: 4
129 gcgcggatcc rggtttcaga ggktyraasa g          31
131 <210> SEQ ID NO: 5
132 <211> LENGTH: 30
133 <212> TYPE: DNA
134 <213> ORGANISM: Homo sapiens
136 <400> SEQUENCE: 5
137 gcgcgtacca agwccacygt ayattattcc          30
139 <210> SEQ ID NO: 6
140 <211> LENGTH: 13
141 <212> TYPE: PRT
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: synthetic peptide
147 <400> SEQUENCE: 6
148 Met Tyr Asp Val Pro Asp Tyr Ala Ser Arg Pro Gln Asn
149 1          5          10
152 <210> SEQ ID NO: 7
153 <211> LENGTH: 32
154 <212> TYPE: PRT
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: synthetic peptide
160 <400> SEQUENCE: 7
161 Met Ala Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser Pro Glu Phe
162 1          5          10          15
163 Leu Val Asp Pro Pro Gly Ser Lys Asn Ser Ile Ala Arg Gly Lys Met
164          20          25          30
167 <210> SEQ ID NO: 8
168 <211> LENGTH: 39
169 <212> TYPE: PRT
170 <213> ORGANISM: Homo sapiens
172 <400> SEQUENCE: 8
173 Glu Lys Leu Pro Pro Gly Trp Glu Lys Arg Met Ser Arg Ser Ser Gly
174 1          5          10          15
175 Arg Val Tyr Tyr Phe Asn His Ile Thr Asn Ala Ser Gln Trp Glu Arg
176          20          25          30
177 Pro Ser Gly Asn Ser Ser Ser
178          35
181 <210> SEQ ID NO: 9
182 <211> LENGTH: 39
183 <212> TYPE: PRT
184 <213> ORGANISM: Yeast ESS1
186 <400> SEQUENCE: 9
187 Thr Gly Leu Pro Thr Pro Trp Thr Val Arg Tyr Ser Lys Ser Lys Lys

```

RAW SEQUENCE LISTING

DATE: 10/08/2004

PATENT APPLICATION: US/10/648,631

TIME: 15:32:28

Input Set : A:\66671-044.TXT

Output Set: N:\CRF4\10082004\J648631.raw

```

188 1          5          10          15
189 Arg Glu Tyr Phe Phe Asn Pro Glu Thr Lys His Ser Gln Trp Glu Glu
190          20          25          30
191 Pro Glu Gly Thr Asn Lys Asp
192          35
195 <210> SEQ ID NO: 10
196 <211> LENGTH: 38
197 <212> TYPE: PRT
198 <213> ORGANISM: Homo sapiens
200 <400> SEQUENCE: 10
201 Val Pro Leu Pro Ala Gly Trp Glu Met Ala Lys Thr Ser Ser Gly Gln
202 1          5          10          15
203 Arg Tyr Phe Leu Asn His Ile Asp Gln Thr Thr Thr Trp Gln Asp Pro
204          20          25          30
205 Arg Lys Ala Met Leu Ser
206          35
209 <210> SEQ ID NO: 11
210 <211> LENGTH: 38
211 <212> TYPE: PRT
212 <213> ORGANISM: Mus musculus
214 <400> SEQUENCE: 11
215 Ser Pro Leu Pro Pro Gly Trp Glu Glu Arg Gln Asp Val Leu Gly Arg
216 1          5          10          15
217 Thr Tyr Tyr Val Asn His Glu Ser Arg Arg Thr Gln Trp Lys Arg Pro
218          20          25          30
219 Ser Pro Asp Asp Asp Leu
220          35
223 <210> SEQ ID NO: 12
224 <211> LENGTH: 38
225 <212> TYPE: PRT
226 <213> ORGANISM: Yeast RSPS
228 <400> SEQUENCE: 12
229 Gly Arg Leu Pro Pro Gly Trp Glu Arg Arg Thr Asp Asn Phe Gly Arg
230 1          5          10          15
231 Thr Tyr Tyr Val Asp His Asn Thr Arg Thr Thr Thr Trp Lys Arg Pro
232          20          25          30
233 Thr Leu Asp Gln Thr Glu
234          35
237 <210> SEQ ID NO: 13
238 <211> LENGTH: 38
239 <212> TYPE: PRT
240 <213> ORGANISM: Homo sapiens
242 <400> SEQUENCE: 13
243 Thr Ser Val Gln Gly Pro Trp Glu Arg Ala Ile Ser Pro Asn Lys Val
244 1          5          10          15
245 Pro Tyr Tyr Ile Asn His Glu Thr Gln Thr Thr Cys Trp Asp His Pro
246          20          25          30
247 Lys Met Thr Glu Leu Tyr
248          35

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/648,631

DATE: 10/08/2004

TIME: 15:32:28

Input Set : A:\66671-044.TXT

Output Set: N:\CRF4\10082004\J648631.raw

```

251 <210> SEQ ID NO: 14
252 <211> LENGTH: 37
253 <212> TYPE: PRT
254 <213> ORGANISM: Rattus rattus
256 <400> SEQUENCE: 14
257 Ser Asp Leu Pro Ala Gly Trp Met Arg Val Gln Asp Thr Ser Gly Thr
258 1 5 10 15
259 Tyr Tyr Trp His Ile Pro Thr Gly Thr Thr Gln Trp Glu Pro Pro Gly
260 20 25 30
261 Arg Ala Ser Pro Ser
262 35
265 <210> SEQ ID NO: 15
266 <211> LENGTH: 14
267 <212> TYPE: PRT
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: consensus sequence
273 <400> SEQUENCE: 15
274 Leu Pro Gly Trp Glu Gly Tyr Tyr Asn His Thr Thr Trp Pro
275 1 5 10
278 <210> SEQ ID NO: 16
279 <211> LENGTH: 105
280 <212> TYPE: PRT
281 <213> ORGANISM: Homo sapiens
283 <400> SEQUENCE: 16
284 His Leu Leu Val Lys His Ser Gln Ser Arg Arg Pro Ser Ser Trp Arg
285 1 5 10 15
286 Gln Glu Lys Ile Thr Arg Thr Lys Glu Glu Ala Leu Glu Leu Ile Asn
287 20 25 30
288 Gly Tyr Ile Gln Lys Ile Lys Ser Gly Glu Glu Asp Phe Glu Ser Leu
289 35 40 45
290 Ala Ser Gln Phe Ser Asp Cys Ser Ser Ala Lys Ala Arg Gly Asp Leu
291 50 55 60
292 Gly Ala Phe Ser Arg Gly Gln Met Gln Lys Pro Phe Glu Asp Ala Ser
293 65 70 75 80
294 Phe Ala Leu Arg Thr Gly Glu Met Ser Gly Pro Val Phe Thr Asp Ser
295 85 90 95
296 Gly Ile His Ile Ile Leu Arg Thr Glu
297 100 105
300 <210> SEQ ID NO: 17
301 <211> LENGTH: 107
302 <212> TYPE: PRT
303 <213> ORGANISM: Yeast ESS1
305 <400> SEQUENCE: 17
306 His Ile Leu Ile Lys His Lys Asp Ser Arg Arg Pro Ala Ser His Arg
307 1 5 10 15
308 Ser Glu Asn Ile Thr Ile Ser Lys Gln Asp Ala Thr Asp Glu Leu Lys
309 20 25 30
310 Thr Leu Ile Thr Arg Leu Asp Asp Asp Ser Lys Thr Asn Ser Phe Glu

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/648,631

DATE: 10/08/2004

TIME: 15:32:29

Input Set : A:\66671-044.TXT

Output Set: N:\CRF4\10082004\J648631.raw